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### 1 Effective ways for querying images by content over the Internet

*Vlachos, M.; Vardangalos, G.; Tatsiopoulos, C.;*

Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean , Volu 1 , 29-31 May 2000

Pages:337 - 340 vol.1

[\[Abstract\]](#)    [\[PDF Full-Text \(284 KB\)\]](#)    **IEEE CNF**

### 2 Visualizing the structure of Web communities based on data acquire from a search engine

*Murata, T.;*

Industrial Electronics, IEEE Transactions on , Volume: 50 , Issue: 5 , Oct. 200

Pages:860 - 866

[\[Abstract\]](#)    [\[PDF Full-Text \(452 KB\)\]](#)    **IEEE JNL**

### 3 An intelligent WWW agent for similarity-based searching

*Rose, T.G.; Wyard, P.J.;*

Intelligent World Wide Web Agents (Digest No: 1997/118), IEE Colloquium on March 1997

Pages:7/1 - 7/6

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### 1 [Link-based ranking 2: Searching the workplace web](#)

Ronald Fagin, Ravi Kumar, Kevin S. McCurley, Jasmine Novak, D. Sivakumar, John A. Tomlin, David P. Williamson

 May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(231.55 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The social impact from the World Wide Web cannot be underestimated, but technologies used to build the Web are also revolutionizing the sharing of business and government information within intranets. In many ways the lessons learned from the Internet carry over directly to intranets, but others do not apply. In particular, the social forces that guide the development of intranets are quite different, and the determination of a "good answer" for intranet search is quite different than on the Int ...

### 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 3 [Information retrieval session 7: web: Automated index management for distributed web search](#)

Rinat Khoussainov, Nicholas Kushmerick

 November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available: pdf(207.09 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed heterogeneous search systems are an emerging phenomenon in Web search, in which independent topic-specific search engines provide search services, and metasearchers distribute user's queries to only the most suitable search engines. Previous research has

investigated methods for engine selection and merging of search results (i.e. performance improvements from the user's perspective). We focus instead on performance from the service provider's point of view (e.g, income from queries ...

**Keywords:** distributed web search, reinforcement learning, stochastic game

#### 4 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali  
September 1999

**ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  [pdf\(524.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...


**Keywords:** HTML, Intranet, WWW, application, development

#### 5 Computing curricula 2001

September 2001

**Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#)

 [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 6 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick  
December 2002

**ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available:  [pdf\(289.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

**Keywords:** Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

#### 7 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  [pdf\(213.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are

consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

**Keywords:** Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

## 8 Object-based navigation: an intuitive navigation style for content-oriented integration environment


Kyoji Hirata, Sougata Mukherjea, Yusaku Okamura, Wen-Syan Li, Yoshinori Hara  
April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** COIR, World-Wide Web, content-oriented integration, object-based navigation, object-level integration, relationship among objects

## 9 Analysis of navigation behaviour in web sites integrating multiple information systems

Bettina Berendt, Myra Spiliopoulou  
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 9 Issue 1

Full text available:  pdf(281.14 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

**Keywords:** Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

## 10 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz  
March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Full text available:  pdf(365.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

**Keywords:** location services, name lookup, network protocols, service discovery

## 11 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi  
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available:  pdf(294.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...


**Keywords:** Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

## 12 Web searching: Specialisation dynamics in federated web search

Rinat Khossainov, Nicholas Kushmerick

November 2004

**Proceedings of the 6th annual ACM international workshop on Web information and data management**

Full text available:  pdf(138.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Organising large-scale Web information retrieval systems into hierarchies of topic-specific search resources can improve both the quality of results and the efficient use of computing resources. A promising way to build such systems involves federations of topic-specific search engines in decentralised search environments. Most of the previous research concentrated on various technical aspects of such environments (e.g. routing of search queries or merging of results from multiple sources). W ...

**Keywords:** competition, federated web search, topic specialisation

## 13 VideoQ: an automated content based video search system using visual cues

Shih-Fu Chang, William Chen, Horace J. Meng, Hari Sundaram, Di Zhong

November 1997

**Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 14 Managing routing tables for URL routers in content distribution networks

Zornitza Genova Prodanoff, Kenneth J. Christensen

May 2004

**International Journal of Network Management**, Volume 14 Issue 3

Full text available:  pdf(337.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large-scale content distribution networks (CDNs) can be built using URL routers to redirect client HTTP requests to the nearest content source. URL routers employ very large routing tables. To improve the manageability of CDNs, we propose to use URL signatures to reduce the size of routing tables and aggressive hashing to speed-up routing look-ups.

## 15 Geospatial mapping and navigation of the web

Kevin S. McCurley

April 2001

**Proceedings of the tenth international conference on World Wide Web**


Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** browsers, geographic information systems, geospatial information retrieval, navigation

## 16 The effectiveness of GLOSS for the text database discovery problem

Luis Gravano, Héctor García-Molina, Anthony Tomasic

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available:  pdf(1.36 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The popularity of on-line document databases has led to a new problem: finding which text databases (out of many candidate choices) are the most relevant to a user. Identifying the relevant databases for a given query is the text database discovery problem. The first part of this paper presents a practical solution based on estimating the result size of a query and a database. The method is termed GLOSS—Glossary of Servers Server. The second part of t ...

#### 17 Visualization: Periscope: a system for adaptive 3D visualization of search results

Wojciech Wiza, Krzysztof Walczak, Wojciech Cellary

April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A system for efficient 3D visualization of Web search results is presented. The system, called Periscope1, uses a novel approach for adaptive and customizable visualization of complex data. The whole process is divided into a number of interactive steps. At each step, the system can automatically choose the best method of presenting search results. The user can also select a specific presentation method to focus on certain properties of the result obtained. After analyzing the current search res ...

**Keywords:** adaptive interfaces, human-computer interfaces, virtual reality

#### 18 P1: "Yes, but does it scale?": practical considerations for database-driven information systems

John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available:  pdf(231.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

**Keywords:** Oracle, automation, categorization, database, performance, reliability, scalability, web services

#### 19 ScentTrails: Integrating browsing and searching on the Web

Christopher Olston, Ed H. Chi

September 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 3

Full text available:  pdf(654.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


The two predominant paradigms for finding information on the Web are browsing and keyword searching. While they exhibit complementary advantages, neither paradigm alone is adequate for complex information goals that lend themselves partially to browsing and partially to searching. To integrate browsing and searching smoothly into a single interface, we introduce a novel approach called ScentTrails. Based on the concept of information scent developed in the context of information foraging theory, ...

**Keywords:** ScentTrails, World Wide Web, browsing, information scent, searching

## 20 Web search 2: Using micro information units for internet search

Xiaoli Li, Tong-Heng Phang, Mingqing Hu, Bing Liu

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available:  pdf(572.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet search is one of the most important applications of the Web. A search engine takes the user's keywords to retrieve and to rank those pages that contain the keywords. One shortcoming of existing search techniques is that they do not give due consideration to the micro-structures of a Web page. A Web page is often populated with a number of small information units, which we call *micro information units* (MIU). Each unit focuses on a specific topic and occupies a specific area of the ...

**Keywords:** micro information units, web page segmentation, web search

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S16	29	((((((surveillance or monitor\$4) same (data adj change)) and network) and (search adj criteria)) and (retrieve\$4 adj data)) and (regular adj intervals)) and index) and content with data) and web adj server	USPAT	OR	ON	2004/08/06 15:23

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S18	0	(((((surveillance or monitor\$4) same (data adj change)) and network) and (search adj criteria)) and (retrieve\$4 adj data)) and (regular adj intervals)) and index) and content with data) and web adj server) and (monitor\$4 adj system)	USPAT	OR	ON	2004/08/06 15:23
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S20	29	(((((surveillance or monitor\$4) same (data adj change)) and network) and (search adj criteria)) and (retrieve\$4 adj data)) and (regular adj intervals)) and index) and content with data) and web adj server) and monitor\$4) and url	USPAT	OR	ON	2004/08/06 15:36
S21	29	(((((surveillance or monitor\$4) same (data adj change)) and network) and (search adj criteria)) and (retrieve\$4 adj data)) and (regular adj intervals)) and index) and content with data) and web adj server) and monitor\$4) and url) and content	USPAT	OR	ON	2004/08/06 15:36
S22	29	(((((surveillance or monitor\$4) same (data adj change)) and network) and (search adj criteria)) and (retrieve\$4 adj data)) and (regular adj intervals)) and index) and content with data) and web adj server) and monitor\$4) and url) and content) and data	USPAT	OR	ON	2004/08/06 15:36